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CONSOLE SPECIFICATIONS

5-296

PROD. ORDER M-6405

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CRYSTAL CATHEDRAL CONGREGATION, GARDEN GROVE, CALIFORNIA

CONSOLE	Movable - Rolltop with lock
CABINET DESIGN	Style A7 (Per discussion with Ronald Ellis)
CABINET WOOD	Rift Sawn Oak
CABINET FINISH	To Customer's Sample
MANUALS	Five and Pedal
MANUAL COMPASS	CC to C4, 61 notes - Tracker Touch Bone Naturals with Walnut Sharps
PEDAL COMPASS	CCC to G, 32 notes - Maple Naturals with Walnut Sharps
STOP CONTROLS	Walnut Draw Knobs and Maple Tilting Tablets
ACTION	All Electric
ACTION CURRENT SUPPLY	12 Volts, DC

CHANCEL GREAT ORGAN ++

1.	16	Bourdon
2.	16	Kontra Geigen
3.	16	Montre
4.	8	Major Principal
5.	8	Diapason
6.	8	Prinzipal
7.	8	Holzbordun
8.	8	Flute Harmonique
9.	8	Spitzflöte
10.	8	Spitz Celeste
11.	4	Oktav
12.	4	Octave
13.	4	Flute a Cheminee
14.	4	Flute Ouverte
15.	3-1/5	Tenth
16.	2-2/3	Sesquialtera II
17.	2-2/3	Jeu de Tierce II
18.	2	Super Octave
19.	2	Fifteenth
20.	2	Blockflöte
21.	1-1/3	Ripieno IV
22.	1-1/3	Mixture IV-VI
23.	2/3	Cimbalo IV
24.	2/3	Zimbel III-XV
25.	16	Contre Trompette
26.	8	Trompette
27.	4	Clairon

CHANCEL GREAT ORGAN (Continued)

- 28. Tremulant
- 29. Chimes
- 30. Sub (by tilting tablet)
- 31. Super
- 32. Unison Off
- 33. Positiv on Great

GALLERY GREAT ORGAN 17

- 34. 8 Principal
- 35. 8 Holzgedeckt
- 36. 4 Octave
- 37. 4 Koppelflote
- 38. 2 Fifteenth
- 39. 1-1/3 Nineteenth
- 40. 1 Twenty-second
- 41. 1-1/3 Fourniture V
- 42. 1/2 Zimbel IV
- 43. 8 Millenial Trumpet
- 44. 8 Herald Trumpet (Solo)
- 45. Tremulant
- 46. Sub
- 47. Super
- 48. Unison Off
- 49. On Manual III
- 50. Off Manual II
- 51. On Manual I

SWELL ORGAN 44

- 52. 16 Flute Courte
- 53. 16 Quintaton
- 54. 8 Montre
- 55. 8 Principal
- 56. 8 Flute Couverte
- 57. 8 Bourdon
- 58. 8 Viole de Gambe
- 59. 8 Viole Celeste
- 60. 8 Viola
- 61. 8 Viola Celeste
- 62. 8 Erzahler Celeste II
- 63. 4 Prestant
- 64. 4 Octave
- 65. 4 Flute a Pavillon
- 66. 4 Cor de Nuit
- 67. 2-2/3 Petite Cornet II
- 68. 2 Quarte de Nazard
- 69. 2 Octavin
- 70. 1-1/3 Larigot

SWELL ORGAN (Continued)

71.	1	Piccolo
72.	8/9	None
73.	2	Plein Jeu III
74.	2	Fourniture V
75.	2/3	Cymbale III
76.	16	Bombarde
77.	16	Contre Trompette
78.	16	Basson
79.	8	Premiere Trompette
80.	8	Deuxieme Trompette
81.	8	Hautbois
82.	8	Hautbois d'Orchestre
83.	8	Voix Humaine
84.	4	Premiere Clairon
85.	4	Deuxieme Clairon
86.		Tremulant
87.		Sub
88.		Super
89.		Unison Off
90.		Positiv on Swell

CHOIR ORGAN ²⁰

91.	16	Gemshorn
92.	8	Viola Pomposa
93.	8	Viola Celeste
94.	8	Cor de Nuit
95.	8	Flute Celeste II
96.	4	Principal
97.	4	Koppelflote
98.	2-2/3	Rohr Nasat
99.	2	Prinzipal
100.	2	Zauberflote
101.	1-3/5	Terz
102.	1-1/3	Larigot
103.	2/3	Scharf <u>IV</u>
104.	16	Fagotto
105.	8	Petite Trompette
106.	8	Clarinet
107.		Tremulant
108.		Zimbelstern
109.		Harp
110.		Celesta
111.		Sub
112.		Super
113.		Unison Off
114.		Positiv on Choir

POSITIV ORGAN 16

115.	8	Prinzipal
116.	8	Rohrflote
117.	4	Prinzipal
118.	4	Spillflote
119.	2	Oktav
120.	1-1/3	Quinte
121.	1	Sifflote
122.	2/3	Scharf IV
123.	1/4	Terz Zimbel III
124.	8	Krummhorn
125.	4	Rohr Schalmel
126.	8	Tuba Mirabilis (Solo)
127.		Tremulant
128.		Sub
129.		Unison Off

SOLO ORGAN 32

130.	8	Geigen
131.	8	Voce Umana
132.	8	Gamba Celeste II
133.	8	Major Flute
134.	8	Flute d'Arvella (Unenclosed)
135.	8	Doppel Flote
136.	4	Major Octave
137.	4	Orchestral Flute
138.	2-2/3	Quinte Flute
139.	2	Harmonics VI
140.	1-1/3	Gross Fourniture III
141.	1/2	Cymbel IV
142.	16	English Post Horn
143.	8	English Post Horn
144.	8	Trompette Harmonique
145.	8	Tuba Mirabilis
146.	8	Corno di Bassetto
147.	8	English Horn
148.	8	French Horn
149.	4	Clairon Harmonique
150.	4	Tuba Clarion
151.	8	Herald Trumpet
152.	8	Millenial Trumpet (Gallery)
153.		Tremulant
154.		Sub
155.		Super
156.		Unison Off
157.		Positiv on Solo

EPISTLE ORGAN 9

158.	16	Chamade
159.	8	Chamade
160.	4	Chamade
161.	2	Chamade
162.	8	Mounted Cornet V
163.		On Manual V
164.		On Manual IV
165.		One Manual I

GOSPEL ORGAN 3

166.	16	Chamade
167.	8	Chamade
168.	4	Chamade
169.		On Manual V
170.		On Manual III
171.		On Manual I

STRING ORGAN 16

172.	16	Viola
173.	16	Viola Celeste
174.	8	Unda Maris II
175.	8	Voix Celeste II
176.	8	Dulcett II
177.	8	Viole II (P)
178.	8	Viole II (F)
179.	8	Violoncello
180.	8	'Cello Celeste
181.	8	Rohrpfeife
182.	4	Nachthorn
183.		Super
184.		On Manual IV
185.		On Manual II
186.		Off Manual I

CELESTIAL ORGAN 31

187.	16	Bourdon Doux	12
188.	8	Principal	
189.	8	Viola Pomposa	
190.	8	Viola Celeste	
191.	8	Flute Celeste II	
192.	8	Flute a Cheminee	
193.	4	Principal	
194.	4	Italian Principal	
195.	4	Flute Traversiere	
196.	2-2/3	Cornet II	
197.	2	Doublette	

CELESTIAL (Continued)

198.	2	Octavin	
199.	1-1/3	Plein Jeu V	
200.	2/3	Cymbale IV	
201.	4/5	Jeu de Clochette II	
202.	16	Contre Trompette	12
203.	16	Ranquette	
204.	8	Trompette	
205.	8	Cor Anglais	
206.	8	Cromorne	
207.	8	Voix Humaine (String)	
208.	4	Cor de Schuller	
209.	4	Chalumeau	
210.		Tremulant	
211.		Sub	
212.		Super	
213.		Unison Off	
214.		Positiv Off	
215.		Etoile	
216.		Rossignol on Pedal I	

ANCILLARY ORGAN 14
(By Tilting Tablets)

217.	16		
218.	8		
219.	4		
220.	2		
221.	VI		
222.	8	II	
223.	8	II	
224.		Super	
225.		Ancillary on Pedal	
226.		Ancillary on III	
227.		Ancillary on II	
228.		Ancillary on I	

CHANCEL PEDAL ORGAN 38

229.	64	La Force	20
230.	32	Open Wood	
231.	32	Kontra Geigen	12
232.	32	Contra Bourdon	
233.	16	Diapason	
234.	16	Contre Basse	
235.	16	Contrabasso	
236.	16	Principal	
237.	16	Geigen (Great)	GT
238.	16	Montre (Great)	GT
239.	16	Bourdon	

CHANCEL PEDAL ORGAN (Continued)

240.	16	Subbasso	
241.	16	Gemshorn (Choir)	CH
242.	16	Flute Courte (Swell)	SW
243.	16	Quintaton (Swell)	SW
244.	10-2/3	Gross Quinte	
245.	8	Octave	
246.	8	Principal	
247.	8	Violone	
248.	8	Spitzflöte	
249.	8	Bourdon	12
250.	8	Bordone	
251.	8	Geigen (Great)	GT
252.	8	Gemshorn (Choir)	CH
253.	8	Flute Courte (Swell)	SW
254.	4	Choral Bass	
255.	4	Octave	
256.	4	Spindleflöte	
257.	4	Spielflöte	
258.	2	Super Octave	
259.	2	Spillflöte	12
260.	5-1/3	Furniture IV	
261.	2-2/3	Ripieno VI	
262.	1-1/3	Acuta II	
263.	32	Grand Cornet IV	
264.	32	Kontra Posaune	
265.	32	Contra Fagotto	12
266.	16	Posaune	12
267.	16	Bombarde (Swell)	SW
268.	16	English Post Horn (Solo)	SW
269.	16	Contre Trompette (Great)	GT
270.	16	Fagotto (Choir)	CH
271.	8	Trompette	
272.	8	Trompete	
273.	8	Krummhorn (Positiv)	PO
274.	4	Klarine	12
275.	4	Clairon	12
276.	4	Rohr Schalmel (Positiv)	PO

GALLERY PEDAL ORGAN 12

277.	32	Untersatz	12
278.	16	Open Diapason	
279.	16	Montre le Tour	
280.	16	Bourdon	
281.	16	Bourdon Doux (Celestial)	CE
282.	16	Viola (String)	ST
283.	16	Viola Celeste (String)	ST
284.	8	Prestant	
285.	8	Pommer	

GALLERY PEDAL ORGAN (Continued)

286.	8	Celeste II (String)	ST
287.	4	Basse de Choral	
288.	2	Mixture V	
289.	32	Harmonics IV	W
290.	32	Contre Bombarde	iz
291.	16	Bombarde	
292.	16	Contre Trompette (Celestial)	
293.	8	Millenial Trumpet (Gallery Great)	

COUPLERS

294.	Great to Pedal	324.	Great to Choir
295.	Swell to Pedal	325.	Swell to Choir 16
296.	Choir to Pedal	326.	Swell to Choir
297.	Solo to Pedal	327.	Swell to Choir 4
298.	Positiv to Pedal	328.	Solo to Choir 16
299.	Gallery Great to Pedal	329.	Solo to Choir
300.	Celestial to Pedal	330.	Solo to Choir 4
301.	String to Pedal	331.	Celestial to Choir 16
302.	Epistle to Pedal	332.	Celestial to Choir
303.	Gospel to Pedal	333.	Celestial to Choir 4
304.	Swell to Great 16	334.	Great on Solo
305.	Swell to Great	335.	Celestial to Solo
306.	Swell to Great 4	336.	Celestial to Solo 4
307.	Choir to Great 16	337.	Skinner Swell
308.	Choir to Great		Expression to Solo
309.	Choir to Great 4	338.	Ruffatti Swell
310.	Solo to Great 16		Expression to Solo
311.	Solo to Great	339.	String Expression to Solo
312.	Solo to Great 4		
313.	Celestial to Great 16	340.	All Swells
314.	Celestial to Great	341.	Pedal Divide Midi on Pedal
315.	Celestial to Great 4	342.	Celestes Silent
316.	Pedal to Great	343.	III/V Transfer
317.	Choir to Swell	344.	Blank Midi on Choir
318.	Choir to Swell 4	345.	Blank Midi on Solo
319.	Solo to Swell	346.	Blank
320.	Solo to Swell 4		
321.	Celestial to Swell 16		
322.	Celestial to Swell		
323.	Celestial to Swell 4		

ADJUSTABLE COMBINATIONS

SSL - 16 Memories

Pistons No. 1-2-3-4-5-6-7-8-0
Pistons No. 1-2-3-4-5-6-7-8-0
Pistons No. 1-2-3-4-5-6-7-8-0
Pistons No. 1-2-3-4-5-6-7-8-0
Pistons No. 1-2-3-4-5-6-7-8-0

Affecting Great Organ
Affecting Swell Organ
Affecting Choir Organ
Affecting Solo Organ
Affecting Celestial Organ

ADJUSTABLE COMBINATIONS (Continued)

Pistons No. 1-2-3-4-5-6-7-8-0	Affecting Positiv Organ
Pistons No. 1-2-3-4-5-6-0	Affecting String Organ
Pistons No. 1-2-3-0	Affecting Gospel Organ
Pistons No. 1-2-3-4-5-0	Affecting Epistle Organ
Toe Studs No. 1-2-3-4-5-6-7-8-0	Affecting Pedal Organ
	(1-6 duplicated by pistons)
Toe Studs No. 1-2-3-4-0	Affecting Gallery Pedal Organ
Pistons No. 1-2-3-4-5-0	Affecting Couplers
Pistons No. 1-2-3-4-0	Affecting Ancillary Organ
Pistons No. 1-2-3-4-5-6-0	Affecting Gallery Great Organ
Pistons No. 1-2-3-4-5-6-7-8-9-10	
11-12-13-14-15-16-17	
18-19-20-21-22-23-24	Affecting Full Organ
	(1-20 duplicated by toe studs)
Chancel General Cancel	
Gallery General Cancel	
General Cancel	
Combination Adjustor (under Choir manual)	

NOTE: 0 = Jamb Pistons

REVERSIBLES

Chancel Tutti - manual piston and toe stud with indicator light
Gallery Tutti - manual piston and toe stud with indicator light
Full Organ - manual piston and toe stud with indicator light
Zimbelstern - jamb piston and toe stud
All Swells to Swell - jamb piston
Mixtures Silent - jamb piston with indicator light
Reeds Silent - jamb piston with indicator light
16/32 Silent - jamb piston with indicator light
Celestes Silent - jamb piston with indicator light (also serves as
activator of Celestes Silent tablet on coupler rail)
Silencer Cancel - toe stud
Great to Pedal - manual piston and toe stud
Swell to Pedal - manual piston and toe stud
Choir to Pedal - manual piston and toe stud
Solo to Pedal - manual piston and toe stud
Celestial to Pedal - manual piston and toe stud
Epistle to Pedal - manual piston
Gospel to Pedal - manual piston
Positiv to Pedal - manual piston and toe stud
String to Pedal - manual piston
Gallery Great to Pedal - manual piston and toe stud
Celestial to Swell - manual piston
Solo to Great - manual piston and toe stud
Positiv to Choir - manual piston
32 Open Wood - toe stud
Midi Off - manual piston

REVERSIBLES (Continued)

32 Kontra Geigen - toe stud
 32 Contra Bourdon - toe stud
 32 Kontra Posaune - toe stud
~~32 Contra Fagotto - toe stud~~ 64 La Force - toe stud
 32 Harmonics - toe stud
 32 Contre Bombarde - toe stud
 32 Grand Cornet - toe stud

Master Controls:

Chancel - jamb piston and toe stud with indicator light
 Both - jamb piston and toe stud
 Gallery - jamb piston and toe stud with indicator light
 Etoile - jamb piston and toe stud
 Chamades on V - manual piston
 Carillon on I - manual piston with indicator light
 Carillon on IV - manual piston with indicator light
 Carillon on Pedal - manual piston with indicator light

PEDAL MOVEMENTS

Balanced Expression Pedal - Celestial Organ
 Balanced Expression Pedal - Choir/String Organ
 Balanced Expression Pedal - Swell Organ
 Balanced Expression Pedal - Solo Organ
 Balanced Crescendo Pedal

ACCESSORIES

Concave, radiating pedal clavier
 Concert style organ bench with music shelf and adjustment blocks
 Highly adjustable open lattice wood music rack

****pedal light**

Movable console platform

~~Tube light above couplers~~******Adjustable side lighting**

SSL panel (including lock) concealed; rotating draw knob

Chimes volume control ~~concealed on~~ ~~1~~ ~~Preferably in drawer~~

Electronic tuner knob ~~concealed on~~ ~~1~~ ~~under right jamb~~ rotating draw knob

***Power switches mounted on stop jamb sills with key switch, by custom**
 that must be on before switches react: Left - Gallery / Chamades
 Right - Chancel / Carillon

Mirror: approximately 10" wide x 7" high framed in matching console wood and finish

*** Switches should light (Radio Shack)**

**** All lights subject to dimmer switch (located under left draw knob jamb)**

DBA/jm 8-18-89

Rev. 9-15-89

Dimmer switch also used as "On"-"Off" for lights

Rev. 10-6-89

**** Mini Spots at Both Sides of Coupler Rails**